

```
MMM      MMM      AAAAAAAAAA      CCCCCCCCCCCC      RRRRRRRRRRRR      0000000000
MMM      MMM      AAAAAAAAAA      CCCCCCCCCCCC      RRRRRRRRRRRR      0000000000
MMM      MMM      AAAAAAAAAA      CCCCCCCCCCCC      RRRRRRRRRRRR      0000000000
MMMMMM    MMMMMM    AAA          AAA      CCC      RRR      RRR      000      000
MMMMMM    MMMMMM    AAA          AAA      CCC      RRR      RRR      000      000
MMMMMM    MMMMMM    AAA          AAA      CCC      RRR      RRR      000      000
MMM      MMM      MMM      AAA          AAA      CCC      RRR      RRR      000      000
MMM      MMM      MMM      AAA          AAA      CCC      RRR      RRR      000      000
MMM      MMM      MMM      AAA          AAA      CCC      RRR      RRR      000      000
MMM      MMM      MMM      AAA          AAA      CCC      RRR      RRR      000      000
MMM      MMM      MMM      AAA          AAA      CCC      RRR      RRR      000      000
MMM      MMM      MMM      AAA          AAA      CCC      RRRRRRRRRRRR      000      000
MMM      MMM      MMM      AAA          AAA      CCC      RRRRRRRRRRRR      000      000
MMM      MMM      MMM      AAA          AAA      CCC      RRRRRRRRRRRR      000      000
MMM      MMM      MMM      AAAAAAAAAAAAAAAAAA      CCC      RRR      RRR      000      000
MMM      MMM      MMM      AAAAAAAAAAAAAAAAAA      CCC      RRR      RRR      000      000
MMM      MMM      MMM      AAAAAAAAAAAAAAAAAA      CCC      RRR      RRR      000      000
MMM      MMM      MMM      AAA          AAA      CCC      RRR      RRR      000      000
MMM      MMM      MMM      AAA          AAA      CCC      RRR      RRR      000      000
MMM      MMM      MMM      AAA          AAA      CCC      RRR      RRR      000      000
MMM      MMM      MMM      AAA          AAA      CCC      RRR      RRR      000      000
MMM      MMM      MMM      AAA          AAA      CCCCCCCCCCCC      RRR      RRR      0000000000
MMM      MMM      MMM      AAA          AAA      CCCCCCCCCCCC      RRR      RRR      0000000000
MMM      MMM      MMM      AAA          AAA      CCCCCCCCCCCC      RRR      RRR      0000000000
```

```
DDDDDDDD      AAAAAA      TTTTTTTTTT      AAAAAA
DDDDDDDD      AAAAAA      TTTTTTTTTT      AAAAAA
DD      DD      AA      AA      TT      AA      AA
DD      DD      AA      AA      TT      AA      AA
DD      DD      AA      AA      TT      AA      AA
DD      DD      AA      AA      TT      AA      AA
DD      DD      AA      AA      TT      AA      AA
DD      DD      AA      AA      TT      AA      AA
DD      DD      AAAAAAAAAA      TT      AAAAAAAAAA
DD      DD      AAAAAAAAAA      TT      AAAAAAAAAA
DD      DD      AA      AA      TT      AA      AA
DD      DD      AA      AA      TT      AA      AA
DDDDDDDD      AA      AA      TT      AA      AA
DDDDDDDD      AA      AA      TT      AA      AA
      ....
      ....
      ....
      ....
```

```
LL      IIIIII      SSSSSSSS
LL      IIIIII      SSSSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SSSSSS
LL      II      SSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LLLLLLLLLL      IIIIII      SSSSSSSS
LLLLLLLLLL      IIIIII      SSSSSSSS
```

(2)	97	DECLARATIONS
(3)	126	CHARACTER TOKEN TABLE
(4)	260	"XUPARROW" AND "XSYMBOL" CHARACTERS
(5)	294	INITIALIZED DATA STORAGE DEFINITIONS
(6)	340	UNINITIALIZED DATA STORAGE DEFINITIONS



```
0000 1 .TITLE MAC$DATA STORAGE ALLOCATION FOR VAX NATIVE ASSEMBLER
0000 2 .IDENT 'V04-000'
0000 3
0000 4
0000 5 *****
0000 6 *
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0000 24 *
0000 25 *
0000 26 *****
0000 27
0000 28
0000 29 ++
0000 30 FACILITY: VAX MACRO ASSEMBLER OBJECT LIBRARY
0000 31
0000 32 ABSTRACT:
0000 33
0000 34 The VAX-11 MACRO assembler translates MACRO-32 source code into object
0000 35 modules for input to the VAX-11 LINKER.
0000 36
0000 37 ENVIRONMENT: USER MODE
0000 38
0000 39 AUTHOR: Benn Schreiber, CREATION DATE: 30-AUG-78
0000 40
0000 41 MODIFIED BY:
0000 42
0000 43 V03-03 MTR0020 Mike Rhodes 07-Jul-1982
0000 44 Add MAC$GL_DSLISF disabled option flag cell to
0000 45 allow for controlled overriding of macro directives
0000 46 from the command level.
0000 47
0000 48 V03-02 MTR0018 Mike Rhodes 07-Jun-1982
0000 49 Add MAC$GL_FNLSTS final status data cell which
0000 50 contains the final exit status for MACRO, when
0000 51 multiple assemblies are to be done. This cell
0000 52 holds the most severe status of all assemblies.
0000 53
0000 54 V03-01 MTR0014 Mike Rhodes 16-Apr-1982
0000 55 Fix data declaration for MAC$GL_CVTADDR, which
0000 56 caused occassional access violations.
0000 57
```

0000	58	:	V02.23	PCG0008	Peter George	26-Aug-1981
0000	59	:			Fix the data allocation for MAC\$GO_VALUEO.	
0000	60	:			Add MAC\$GL_CVTADDR.	
0000	61	:				
0000	62	:	V02.22	CNH0045	Chris Hume	1-Dec-1980
0000	63	:			Increased size of parser value stack. Stack overflow remains	
0000	64	:			undetected. Also advanced displayed IDENT to 2.46.	
0000	65	:			(DATA1.MAR 02.26, MAIN.MAR 02.46)	
0000	66	:				
0000	67	:	V02.21	HJ0002	Herb Jacobs	18-Aug-1980
0000	68	:			Make \$DEF's global using standard \$GBLINI macro.	
0000	69	:				
0000	70	:	V01.20	RN0023	R. Newland	3-Nov-1979
0000	71	:			New message codes to get error messages from system	
0000	72	:			message file.	
0000	73	:				
0000	74	:	V01.19	RN0022	R. Newland	31-Oct-1979
0000	75	:			Translate SYSSLP_LINES to set lines/page	
0000	76	:				
0000	77	:	V01.19	RN0014	R. Newland	12-Oct-1979
0000	78	:			Support for G_floating, H_floating and Octaword data types	
0000	79	:				
0000	80	:	V01.18	RN0011	R. Newland	11-Sep-1979
0000	81	:			New librarian support	
0000	82	:				
0000	83	:	V01.17	RN0008	R. Newland	29-Aug-1979
0000	84	:			31 character symbols	
0000	85	:				
0000	86	:	V01.16	RN0005	R. Newland	10-Aug-1979
0000	87	:			Symbolically defined maximum argument size	
0000	88	:	V01.15	RN0002	R. Newland	01-Feb-1979
0000	89	:			Changes for Source Update Merge	
0000	90	:	V01.17	RN0007	R. Newland	22-Aug-1979
0000	91	:			Fix character table error for ( \ ) and DEL.	
0000	92	:				
0000	93	:	V01.14	008	B. Schreiber	22-JAN-1979
0000	94	:			Better bookkeeping of allocated pages.	
0000	95	--				

```
0000 97      .SBTTL  DECLARATIONS
0000 98      :
0000 99      : INCLUDE FILES:
0000 100     :
0000 101     :
0000 102     :
0000 103     : MACROS:
0000 104     :
0000 105     :
0000 106     $MAC_GRAMMARDEF      ;DEFINE VAX-11 MACRO TERMINAL GRAMMAR SYMBOLS
0000 107     $MAC_GENVALDEF       ;DEFINE VAX-11 MACRO COMMON SYMBOLS
0000 108     $MAC_INPBLKDEF       ;DEFINE INPUT BLOCK OFFSETS
003C 109     $MAC_SYMBLKDEF       ;SYMBOL BLOCK DEFINITIONS
0000 110     $FABDEF              ;DEFINE FAB OFFSETS
0000 111     $NAMDEF             ;DEFINE NAME BLOCK OFFSETS
0000 112     DEFSUMCBL            ; Define SUM control block symbols
0000 113     $LBRDEF             ; Define LBR offsets
0000 114     :
0000 115     :
0000 116     : EQUATED SYMBOLS:
0000 117     :
0000 118     :
0000 119     $GBLINI GLOBAL      . ;FORCE DATA ALLOCATION TO BE GLOBAL
0000 120     :
0000 121     :
0000 122     : OWN STORAGE:
0000 123     :
0000 124     :
```



```
0000 126 .SBTTL CHARACTER TOKEN TABLE
0000 127
0000 128 :++
0000 129 : FUNCTIONAL DESCRIPTION:
0000 130 :
0000 131 : THE CHARACTER TABLE ('MAC$AL_CHRTAB') IS USED TO DETERMINE WHICH
0000 132 : TOKENS CAN POSSIBLY BE STARTED WITH A GIVEN CHARACTER. THE
0000 133 : PROCEDURE IS TO OBTAIN THE FIRST CHARACTER OF THE TOKEN AND
0000 134 : GET THE TABLE ENTRY CORRESPONDING TO THE ASCII VALUE OF THE
0000 135 : CHARACTER. IF THE CHARACTER ITSELF IS A TOKEN (LIKE DDPLUS)
0000 136 : THEN THE HIGH ORDER BIT WILL BE SET IN THE TABLE ENTRY. IF
0000 137 : THE HIGH ORDER BIT IS NOT SET IT IS THE NAME OF A ROUTINE TO
0000 138 : CALL TO DECIDE THE TOKEN TYPE. THIS ROUTINE MAY SCAN FURTHER
0000 139 : AS IN THE CASE OF A SYMBOL, OR IT MAY SIMPLY LOOK AHEAD TO
0000 140 : RESOLVE AN AMBIGUITY. IN ANY CASE, THE ROUTINE INVOLVED WILL
0000 141 : RETURN THE TOKEN CLASS IN R8, THE ASSOCIATED VALUE (IF ANY)
0000 142 : IN MAC$VALUE, AND THE CHARACTER POINTER WILL BE UPDATED PAST
0000 143 : THE TOKEN SCANNED.
0000 144 :
0000 145 : AN ADDITIONAL TABLE, MAC$AB_CMSK_TAB IS ALSO GENERATED. THIS
0000 146 : IS A BYTE-ORIENTED TABLE, CONTAINING ONE BYTE FOR EACH CHARACTER.
0000 147 : THE VALUES ARE SET FROM THE FLAGS ARGUMENT AND ARE USED IN
0000 148 : SCANC/SPANC INSTRUCTIONS TO LOOK FOR A PARTICULAR TYPE OF CHARACTER
0000 149 :
0000 150 :
0000 151 :
0000 152 :
0000 153 :--
0000 154
80000000 0000 155 SPECIAL = *X80000000 ;FLAG THAT CHAR IS SPECIAL
0000 156
0000 157 .MACRO $CHR_TABENTRY VAL=0, SPF=0, FLAGS=0
0000 158 .LONG SPF+VAL
0000 159 .PSECT MAC$CHR_FLG_TAB,NOWRT,NOEXE,GBL,LONG
0000 160 .BYTE FLAGS
0000 161 .PSECT MAC$CHRTAB,NOWRT,NOEXE,GBL,LONG
0000 162 .ENDM $CHR_TABENTRY
0000 163
00000000 0000 164 .PSECT MAC$CHR_FLG_TAB,NOWRT,NOEXE,GBL,LONG
0000 165
0000 166 MAC$AB_CMSK_TAB:: ;FLAG BITS FOR CHARACTERS
0000 167
00000000 0000 168 .PSECT MAC$CHRTAB,NOWRT,NOEXE,GBL,LONG
0000 169
0000 170 MAC$AL_CHRTAB:: ;CHARACTER TOKENS
0000 171
0000 172 $CHR_TABENTRY 0,,CHRSM_SPA_MSK!CHRSM_SYM_DLM ;IGNORE NULLS
0004 173 .REPT 8
0004 174 $CHR_TABENTRY MAC$CHRRERR,,CHRSM_SYM_DLM ;0-8 ARE ILLEGAL CHARACTERS
0004 175 .ENDR
0024 176 $CHR_TABENTRY 0,,CHRSM_SPA_MSK!CHRSM_SYM_DLM ;IGNORE TAB
0028 177 $CHR_TABENTRY 0,,CHRSM_SPA_MSK!CHRSM_SYM_DLM ;IGNORE LINE FEED
002C 178 $CHR_TABENTRY MAC$CHRRERR,,CHRSM_SYM_DLM ;VERTICAL TAB IS ERROR
0030 179 $CHR_TABENTRY 0,,CHRSM_SPA_MSK!CHRSM_SYM_DLM ;IGNORE FORM FEED
0034 180 $CHR_TABENTRY DEOL,SPECIAL,CHRSM_COMMA_CR!CHRSM_SYM_DLM ;CR IS END OF LINE
0038 181 .REPT 18
0038 182 $CHR_TABENTRY MAC$CHRRERR,,CHRSM_SYM_DLM ;CTRL-N TO CTRL-SHIFT-O ARE ERRORS
```

0038	183	.ENDR	
0080	184	\$CHR_TABENTRY	0,,CHRSM_SPA_MSK!CHRSM_SYM_DLM ;IGNORE SPACE
0084	185	\$CHR_TABENTRY	DOR,SPECIAL,CHRSM_SYM_DLM ;(!)
0088	186	\$CHR_TABENTRY	MAC\$CHRRER,,CHRSM_SYM_DLM ;(') IS AN ERROR
008C	187	\$CHR_TABENTRY	MAC\$XPOUND,,CHRSM_SYM_DLM ;(#)
0090	188	\$CHR_TABENTRY	MAC\$SYMBOL,,CHRSM_SYM_CHR!CHRSM_SYM_CH1 ;(\$)
0094	189	\$CHR_TABENTRY	MAC\$CHRRER,,CHRSM_SYM_DLM ;(%)
0098	190	\$CHR_TABENTRY	DAND,SPECIAL,CHRSM_SYM_DLM ;(&)
009C	191	\$CHR_TABENTRY	MAC\$CHRRER,,CHRSM_SYM_DLM ;(')
00A0	192	\$CHR_TABENTRY	DOPN,SPECIAL,CHRSM_SYM_DLM ;((
00A4	193	\$CHR_TABENTRY	DCLS,SPECIAL,CHRSM_SYM_DLM ;(())
00A8	194	\$CHR_TABENTRY	DTIMES,SPECIAL,CHRSM_SYM_DLM ;(*)
00AC	195	\$CHR_TABENTRY	DPLUS,SPECIAL,CHRSM_SYM_DLM ;(+)
00B0	196	\$CHR_TABENTRY	DCOMMA,SPECIAL,CHRSM_SYM_DLM!CHRSM_COMMA_CR ;(,)
00B4	197	\$CHR_TABENTRY	DMINUS,SPECIAL,CHRSM_SYM_DLM ;(=)
00B8	198	\$CHR_TABENTRY	MAC\$SYMBOL,,CHRSM_SYM_CHR!CHRSM_SYM_CH1 ;(.)
00BC	199	\$CHR_TABENTRY	DDIV,SPECIAL,CHRSM_SYM_DLM ;(/)
00C0	200	.REPT 10.	
00C0	201	\$CHR_TABENTRY	MAC\$NUMBER,,CHRSM_SYM_CH1!CHRSM_NUM_BER ;DIGITS
00C0	202	.ENDR	
00E8	203	\$CHR_TABENTRY	DCOLON,SPECIAL,CHRSM_SYM_DLM ;(:)
00EC	204	\$CHR_TABENTRY	MAC\$CHRRER,,CHRSM_SYM_DLM ;(:)
00F0	205	\$CHR_TABENTRY	DANGOPN,SPECIAL,CHRSM_SYM_DLM ;(<)
00F4	206	\$CHR_TABENTRY	DEQ,SPECIAL,CHRSM_SYM_DLM ;(=)
00F8	207	\$CHR_TABENTRY	DANGCLS,SPECIAL,CHRSM_SYM_DLM ;(>)
00FC	208	\$CHR_TABENTRY	MAC\$CHRRER,,CHRSM_SYM_DLM ;(?)
0100	209	\$CHR_TABENTRY	DAT,SPECIAL,CHRSM_SYM_DLM ;(@)
0104	210	.REPT 6	
0104	211	\$CHR_TABENTRY	MAC\$SYMMNUM,,CHRSM_SYM_CHR!CHRSM_SYM_CH1 ;LETTERS A-F CAN STA
0104	212	.ENDR	
011C	213	\$CHR_TABENTRY	MAC\$XSYMBL,,CHRSM_SYM_CHR!CHRSM_SYM_CH1 ;(G)
0120	214	\$CHR_TABENTRY	MAC\$SYMBOL,,CHRSM_SYM_CHR!CHRSM_SYM_CH1 ;(H)
0124	215	\$CHR_TABENTRY	MAC\$XSYMBL,,CHRSM_SYM_CHR!CHRSM_SYM_CH1 ;(I)
0128	216	\$CHR_TABENTRY	MAC\$SYMBOL,,CHRSM_SYM_CHR!CHRSM_SYM_CH1 ;(J)
012C	217	\$CHR_TABENTRY	MAC\$SYMBOL,,CHRSM_SYM_CHR!CHRSM_SYM_CH1 ;(K)
0130	218	\$CHR_TABENTRY	MAC\$XSYMBL,,CHRSM_SYM_CHR!CHRSM_SYM_CH1 ;(L)
0134	219	.REPT 6	
0134	220	\$CHR_TABENTRY	MAC\$SYMBOL,,CHRSM_SYM_CHR!CHRSM_SYM_CH1 ;(M-R)
0134	221	.ENDR	
014C	222	\$CHR_TABENTRY	MAC\$XSYMBL,,CHRSM_SYM_CHR!CHRSM_SYM_CH1 ;(S)
0150	223	.REPT 3	
0150	224	\$CHR_TABENTRY	MAC\$SYMBOL,,CHRSM_SYM_CHR!CHRSM_SYM_CH1 ;(T-V)
0150	225	.ENDR	
015C	226	\$CHR_TABENTRY	MAC\$XSYMBL,,CHRSM_SYM_CHR!CHRSM_SYM_CH1 ;(W)
0160	227	.REPT 3	
0160	228	\$CHR_TABENTRY	MAC\$SYMBOL,,CHRSM_SYM_CHR!CHRSM_SYM_CH1 ;(X-Z)
0160	229	.ENDR	
016C	230	\$CHR_TABENTRY	DSQOPN,SPECIAL,CHRSM_SYM_DLM ;(E)
0170	231	\$CHR_TABENTRY	DXOR,SPECIAL,CHRSM_SYM_DLM ;(\)
0174	232	\$CHR_TABENTRY	DSQCLS,SPECIAL,CHRSM_SYM_DLM ;(J)
0178	233	\$CHR_TABENTRY	MAC\$XUPARROW,,CHRSM_SYM_DLM ;(^)
017C	234	\$CHR_TABENTRY	MAC\$SYMBOL,,CHRSM_SYM_CH1!CHRSM_SYM_CHR ;( _)
0180	235	\$CHR_TABENTRY	MAC\$CHRRER,,CHRSM_SYM_DLM ;(')
0184	236	.REPT 6	
0184	237	\$CHR_TABENTRY	MAC\$SYMMNUM,,CHRSM_SYM_CHR!CHRSM_SYM_CH1 ;LETTERS A-F CAN STA
0184	238	.ENDR	
019C	239	\$CHR_TABENTRY	MAC\$XSYMBL,,CHRSM_SYM_CHR!CHRSM_SYM_CH1 ;(G)



01A0	240	\$CHR_TABENTRY	MAC\$SYMBOL,,CHR\$M_SYM_CHR!CHR\$M_SYM_CH1 ;(H)
01A4	241	\$CHR_TABENTRY	MAC\$XSYMBL,,CHR\$M_SYM_CHR!CHR\$M_SYM_CH1 ;(I)
01A8	242	\$CHR_TABENTRY	MAC\$SYMBOL,,CHR\$M_SYM_CHR!CHR\$M_SYM_CH1 ;(J)
01AC	243	\$CHR_TABENTRY	MAC\$SYMBOL,,CHR\$M_SYM_CHR!CHR\$M_SYM_CH1 ;(K)
01B0	244	\$CHR_TABENTRY	MAC\$XSYMBL,,CHR\$M_SYM_CHR!CHR\$M_SYM_CH1 ;(L)
01B4	245	.REPT 6	
01B4	246	\$CHR_TABENTRY	MAC\$SYMBOL,,CHR\$M_SYM_CHR!CHR\$M_SYM_CH1 ;(M-R)
01B4	247	.ENDR	
01CC	248	\$CHR_TABENTRY	MAC\$XSYMBL,,CHR\$M_SYM_CHR!CHR\$M_SYM_CH1 ;(S)
01D0	249	.REPT 3	
01D0	250	\$CHR_TABENTRY	MAC\$SYMBOL,,CHR\$M_SYM_CHR!CHR\$M_SYM_CH1 ;(T-V)
01D0	251	.ENDR	
01DC	252	\$CHR_TABENTRY	MAC\$XSYMBL,,CHR\$M_SYM_CHR!CHR\$M_SYM_CH1 ;(W)
01E0	253	.REPT 3	
01E0	254	\$CHR_TABENTRY	MAC\$SYMBOL,,CHR\$M_SYM_CHR!CHR\$M_SYM_CH1 ;(X-Z)
01E0	255	.ENDR	
01EC	256	.REPT <255-^A/z/>	;FILL OUT TABLE
01EC	257	\$CHR_TABENTRY	MAC\$CHERR,,CHR\$M_SPA_MSK!CHR\$M_SYM_DLM
01EC	258	.ENDR	

```
0400 260 .SBTTL "XUPARROW" AND "XSYMBOL" CHARACTERS
0400 261
0400 262 :++
0400 263 THESE TABLES ARE USED TO SCAN RADIX CONTROL FUNCTIONS.
0400 264 FUNCTIONS ARE EITHER "'^'<CHAR>' OR <CHAR>'^'". "'^'" IS THE UPARROW
0400 265 OR "HAT".
0400 266 'MAC$AB_UPXTAB' POINTS TO A LIST OF CHARACTERS LEGAL AFTER A "'^'"
0400 267 'MAC$AB_UPXTOKEN' POINTS TO A LIST OF CORRESPONDING TOKEN TYPES.
0400 268
0400 269 'MAC$AB_XUPTAB' POINTS TO A LIST OF CHARACTERS LEGAL BEFORE A "'^'"
0400 270 'MAC$AB_XUPTOKEN' POINTS TO A CORRESPONDING LIST OF TOKEN TYPES.
0400 271 :--
0400 272
00000000 273 .PSECT MAC$RO_DATA,NOEXE,NOWRT,GBL, LONG
0000 274
0000 275 MAC$AB_UPXTAB::
64 63 62 61 58 4F 4D 46 44 43 42 41 0000 276 .ASCII /ABCDFM0Xabcdfmox/ ;'^'X' CHARACTERS
78 6F 6D 66 000C
00000010 0010 277 LENS$K_UPXTAB==.-MAC$AB_UPXTAB
0010 278
0010 279 .ALIGN LONG
0010 280 MAC$AB_UPXTOKEN::
2A 27 29 28 26 25 24 23 0010 281 .BYTE DUPA,DUPB,DUPC,DUPD,DUPF,DUPM,DUPO,DUPX
2A 27 29 28 26 25 24 23 0018 282 .BYTE DUPA,DUPB,DUPC,DUPD,DUPF,DUPM,DUPO,DUPX
0020 283
0020 284 .ALIGN LONG
0020 285 MAC$AB_XUPTAB::
67 69 6C 77 62 73 47 49 4C 57 42 53 0020 286 .ASCII /SBWLIGsbwlig/ ;'X'^ CHARACTERS
0000000C 002C 287 LENS$K_XUPTAB==.-MAC$AB_XUPTAB
002C 288
002C 289 .ALIGN LONG
002C 290 MAC$AB_XUPTOKEN::
2C 2D 2E 30 2B 2F 002C 291 .BYTE DSUP,DBUP,DWUP,DLUP,DIUP,DGUP
2C 2D 2E 30 2B 2F 0032 292 .BYTE DSUP,DBUP,DWUP,DLUP,DIUP,DGUP
```

```
0038 294 .SBTTL INITIALIZED DATA STORAGE DEFINITIONS
0038 295
0038 296 :++
0038 297 THIS SECTION DEFINES THE GLOBAL DATA STORAGE USED BY
0038 298 THE VAX-11 MACRO ASSEMBLER THAT IS INITIALIZED AT
0038 299 ASSEMBLY TIME.
0038 300 :--
0038 301
0038 302 .ALIGN LONG
0038 303
0038 304 MAC$GK_ZERO::
00000000 0038 305 .LONG 0 ;A GUARANTEED ZERO WORD
0038 306 MAC$GK_ONE::
00000001 0038 307 .LONG 1 ;A CONSTANT 1
0038 308 MAC$GK_INTSIZ::
00001400 0040 309 .LONG INT$K_BUFSIZ+<3*4> ;SIZE OF INTERMEDIATE BUFFER
0044 310 ;SIZE OF INT. BUFFER WE NEED
0044 311 ;TO ALLOCATE (2 LINK WORDS AND
0044 312 ;SIZE WORD)
0044 313 MAC$G_1_PAGE::
0044 314 $ARGLIST 2,MAC$GK_1_PG_SIZ,- ;ARG BLOCK TO ALLOCATE 1 PAGE
0044 315 MAC$GL_BASEADDR
0050 316 MAC$G_2_PAGES::
0050 317 $ARGLIST 2,MAC$GK_2_PG_SIZ,- ;ARG BLOCK TO ALLOCATE 2 PAGES
0050 318 MAC$GL_BASEADDR ;AND STORE BASE ADDRESS HERE
005C 319 MAC$GK_1_PG_SIZ::
00000200 005C 320 .LONG 512 ;SIZE OF ONE PAGE
0060 321 MAC$GK_2_PG_SIZ::
00000400 0060 322 .LONG 1024 ;SIZE OF TWO PAGES
0064 323 MAC$G_LSTBUFDES::
00000418' 0064 324 .LONG MAC$AB_LINE_END-MAC$AB_LST_END ;DESCRIPTOR FOR FAO
00000002' 0068 325 .LONG MAC$AB_LST_END
006C 326 MAC$AL_ATIM_DSC::
00000014' 006C 327 .LONG 20 ;STRING DESCRIPTOR TO GET ASCII TIME
0000004A' 0070 328 .LONG MAC$AB_ATIM_BUF ;TWENTY-THREE BYTE BUFFER
0074 329 MAC$AL_FTIM_DSC::
00000014' 0074 330 .LONG 20 ;ADDRESS OF BUFFER
000000CD' 0078 331 .LONG MAC$AB_SBT_DATE ;STRING DESCRIPTOR FOR SUBTITLE LINE DATE
007C 332 MAC$GL_LIBTYPE::
00000002 007C 333 .LONG LBR$C_TYP_MLB ; Library type = MACRO
0080 334 MAC$GL_LIBFUNC::
00000001 0080 335 .LONG LBR$C_READ ; Library function = READ
0084 336 MAC$GQ_LINEBFDS::
00000032'000003E8 0084 337 .LONG INP$K_BUFSIZ,MAC$AB_LINEBF ; Descriptor for line buffer
008C 338 MAC$GQ_LISTBFDS::
00000002'000003E8 008C 339 .LONG INP$K_BUFSIZ,MAC$AB_LST_END ; Descriptor for listing buffer
```



```
0094 340 .SBTTL UNINITIALIZED DATA STORAGE DEFINITIONS
0094 341
0094 342 :++
0094 343 :
0094 344 :
0094 345 :--
0094 346
00000000 347 .PSECT MAC$RW_DATA,NOEXE, LONG
0000 348
0000 349 $DEF MAC$GL_FLAGS .BLKL 2 :GLOBAL ASSEMBLY FLAGS POINTED TO
0008 350 : BY R11
0008 351 $DEF MAC$GL_CLIADDR .BLKL 1 :CLI CALL BACK ADDRESS
000C 352 $DEF MAC$GL_CMDLIN .BLKL 1 :ADDRESS OF COMMAND LINE
0010 353 $DEF MAC$GL_CMDLEN .BLKL 1 :LENGTH OF COMMAND LINE
0014 354 $DEF MAC$GL_DIRFLG .BLKL 1 :FLAG WORD FOR DIRECTIVES
0018 355 $DEF MAC$GL_ENLISF .BLKL 1 :FLAGS SET BY /SHOW/ENABLE IN COMMAND LINE
001C 356 $DEF MAC$GL_DSLISF .BLKL 1 :FLAGS CLEARED BY /NOSHOW/DISABLE IN COMMAND
0020 357 $DEF MAC$GL_INI-AP .BLKL 1 :INITIAL AP
0024 358 $DEF MAC$GL_INI-FP .BLKL 1 :INITIAL FP
0028 359 $DEF MAC$GL_INI-SP .BLKL 1 :INITIAL SP
002C 360 $DEF MAC$GL_FNLSTS .BLKL 1 :FINAL EXIT STATUS
0030 361 :***THE FOLLOWING 4 ITEMS MUST NOT BE SEPARATED
0030 362 :
0030 363 $DEF MAC$GB_MODE .BLKB 1 :PRIMARY MODE OF OPERAND
0031 364 $DEF MAC$GB_IMODE .BLKB 1 :INDEXED MODE
0032 365 $DEF MAC$GB_REG .BLKB 1 :REGISTER
0033 366 $DEF MAC$GB_IREG .BLKB 1 :...
0034 367 :
0034 368 :***THE ABOVE 4 ITEMS MUST NOT BE SEPARATED
0034 369 $DEF MAC$GL_IMP_BEG .BLKL 0 :BEGINNING OF IMPURE AREA
0034 370 $DEF MAC$GL_ARGPTR .BLKL 1 :POINTER TO FREE SPOT ON PAGE
0038 371 : DURING MACRO DEFINITION
0038 372 $DEF MAC$GL_ASCCNT .BLKL 1 :CHARACTER COUNT FOR .ASCIX DIRECTIVES
003C 373 $DEF MAC$GL_ABSFLAG .BLKL 1 :ABSOLUTE FLAG
0040 374 $DEF MAC$GL_ASNPTR .BLKL 1 :POINTER TO SYM BLOCK FOR ASSIGNMENT EXPR
0044 375 $DEF MAC$GL_BASEADDR .BLKL 1 :RETURNS BASE ADDRESS FROM VM GET
0048 376 $DEF MAC$GL_BLKPTR .BLKL 1 :POINTER TO INPUT BLOCK (GETARGS)
004C 377 $DEF MAC$GL_CTLMSK .BLKL 1 :MASK OF FLAG BITS SET FROM CLI
0050 378 $DEF MAC$GL_CRF_CNT .BLKL 1 :COUNT # TIMES CREF CALLED FOR SYMBOLDEF/REF
0054 379 $DEF MAC$GL_CRF_FLG .BLKL 1 :FLAGS FOR CREF--WHAT TO CREF
0058 380 $DEF MAC$GL_CRF_DCNT .BLKL 1 :# DIRECTIVE DEF/REF CREF CALLS
005C 381 $DEF MAC$GL_CRF_MCNT .BLKL 1 :# MACRO DEF/REF CREF CALLS
0060 382 $DEF MAC$GL_CRF_OCNT .BLKL 1 :# OPCODE REF CALLS
0064 383 $DEF MAC$GL_CRF_RCNT .BLKL 1 :# REGISTER REF CALLS
0068 384 $DEF MAC$GL_CRSYM .BLKL 1 :CREATED SYMBOL NUMBER
006C 385 $DEF MAC$GL_CURINFDB .BLKL 1 :POINTER TO CURRENT INPUT FDB
0070 386 $DEF MAC$GL_DFPC_DSP .BLKL 1 :0 OR INDEX FOR DEFAULT DISPLACEMENT
0074 387 : FOR PC-RELATIVE W/NO "X"
0074 388 $DEF MAC$GL_ERRCT .BLKL 1 :COUNT OF ERRORS ENCOUNTERED
0078 389 $DEF MAC$GL_ERR_LIST .BLKL 2 :QUEUE HEAD FOR ERROR LIST
0080 390 $DEF MAC$AB_ETXBUF .BLKB 512 :ERROR TEXT BUFFER
0280 391 $DEF MAC$GL_ETXLEN .BLKL 1 :LENGTH OF TEXT IN ETXBUF
0284 392 $DEF MAC$GL_EXPOPVL1 .BLKL 1
0288 393 $DEF MAC$GL_EXPOPVL2 .BLKL 1
028C 394 $DEF MAC$GL_FINPTF .BLKL 1 :NON-ZERO WHEN FIRST INPUT FILE HAS BEEN PAR
0290 395 $DEF MAC$GL_FREE_LST .BLKL 2 :QUEUE HEAD FOR FREE PAGES
0298 396 $DEF MAC$GL_HIGH_32 .BLKL 1 :HIGH ORDER 32 BITS OF OPERAND
```

029C	397	\$DEF	MAC\$GQ_HIGH_64	.BLKQ	1	:High order 64 bits of octaword operand
02A4	398	\$DEF	MAC\$GL_HSHVAL	.BLKL	1	:HASH VALUE RETURNED FROM GETSYM
02A8	399	\$DEF	MAC\$AB_IDENT	.BLKB	SYMSK_MAXLEN+1	:IDENT OF ASSEMBLY
02C8	400	\$DEF	MAC\$GL_IF_CNDPT	.BLKL	1	:POINTER TO IF CONDITION ROUTINE
02CC	401	\$DEF	MAC\$GL_IF_COUNT	.BLKL	1	:COUNT OF NESTED IF'S IN FALSE CONDITIONALS
02D0	402	\$DEF	MAC\$GL_IF_LEVEL	.BLKL	1	:IF' LEVEL
02D4	403	\$DEF	MAC\$GL_IF_VALUE	.BLKL	1	:LOW BIT CLEAR IF CURRENT LEVEL IS TRUE
02D8	404	\$DEF	MAC\$GL_INFOCNT	.BLKL	1	:Count of information messages
02DC	405	\$DEF	MAC\$GL_INTFRMPT	.BLKL	1	:POINTER TO CURRENT INT. FRAME BLOCK
02E0	406	\$DEF	MAC\$GL_INTWRNPT	.BLKL	1	:POINTER TO WARNING SPOT
02E4	407	\$DEF	MAC\$GL_INTPAGRQ	.BLKL	1	:# OF PAGES USED FOR INT. BUFFER
02E8	408	\$DEF	MAC\$GL_INTCNT	.BLKL	1	:COUNT OF BYTES LEFT IN INTBUF
02EC	409	\$DEF	MAC\$GL_INTQUE	.BLKL	2	:HEAD OF QUEUE FOR INT. BUFFERS
02F4	410	\$DEF	MAC\$GL_PRMINBL	.BLKB	INPSK_BLKSIZE	:PRIMARY INPUT BLOCK
0315	411		.ALIGN LONG			
0318	412	\$DEF	MAC\$GL_INPQUE	.BLKL	2	:QUEUE HEAD TO INPUT FILE FDB LIST
0320	413	\$DEF	MAC\$GL_INPUTP	.BLKL	1	:POINTER TO CURRENT INPUT BLOCK
0324	414	\$DEF	MAC\$GL_KEYMAC	.BLKL	1	
0328	415	\$DEF	MAC\$GL_KEYPTR	.BLKL	1	
032C	416	\$DEF	MAC\$GL_LINBAS	.BLKL	1	:BASE LINE NUMBER OF CURRENT FILE
0330	417	\$DEF	MAC\$GL_LINENUM	.BLKL	1	:SEQUENTIAL LINE # FOR ASSEMBLY
0334	418	\$DEF	MAC\$GL_LINELN	.BLKL	1	:LENGTH OF CURRENT SOURCE LINE
0338	419	\$DEF	MAC\$GL_LINE_CNT	.BLKL	1	:NUMBER OF LINES REMAINING IN CURRENT PAGE
033C	420	\$DEF	MAC\$GL_LN_PAGE	.BLKL	1	:# of text lines on page
0340	421	\$DEF	MAC\$GL_LINK_PTR	.BLKL	1	:POINTER TO LINKED, ALPHABETIZED SYMBOL TBL
0344	422	\$DEF	MAC\$GL_LIST_IT	.BLKL	1	:LISTING FLAG
0348	423	\$DEF	MAC\$GL_LIST_LVL	.BLKL	1	:LISTING LEVEL
034C	424	\$DEF	MAC\$AB_LPBUFF	.BLKB	16	:BUFFER TO CREATE LINE/PAGE FOR CREF
035C	425	\$DEF	MAC\$GL_LPTPAG	.BLKL	1	:CURRENT PAGE NUMBER
0360	426	\$DEF	MAC\$GL_LSB	.BLKL	1	:LOCAL SYMBOL BLOCK NUMBER
0364	427	\$DEF	MAC\$GL_LSB_MAX	.BLKL	1	:HIGHEST LSB ** MUST FOLLOW MAC\$GL_LSB
0368	428	\$DEF	MAC\$GL_MACPTR	.BLKL	1	:POINTER TO MACRO CURRENTLY BEING DEFINED
036C	429	\$DEF	MAC\$GL_MC_ARGCT	.BLKL	1	:MACRO ARGUMENT COUNT
0370	430	\$DEF	MAC\$GL_MCDDEF	.BLKL	1	:# MACROS DEFINED
0374	431	\$DEF	MAC\$GL_MCLVL	.BLKL	1	:MACRO DEFINITION LEVEL
0378	432	\$DEF	MAC\$GL_MCPGRQ	.BLKL	1	:# PAGES REQUIRED TO DEFINE MACROS
037C	433	\$DEF	MAC\$GL_MLB_CNT	.BLKL	1	:# OF MLB'S WE KNOW ABOUT
0380	434	\$DEF	MAC\$GL_MLB_NDB	.BLKL	1	:# INDEX BLOCKS USED FOR ALL MLB'S
0384	435	\$DEF	MAC\$GL_MLB_GET	.BLKL	1	:# GETS TO DEFINE MACROS
0388	436	\$DEF	MAC\$GL_MLB_MDF	.BLKL	1	:# MACROS DEFINED OUT OF ALL MLB'S
038C	437	\$DEF	MAC\$GL_MLB_QUE	.BLKL	2	:MLB FDB QUEUE HEADER
0394	438	\$DEF	MAC\$GL_MLIN_LEN	.BLKL	1	:LENGTH OF MACRO LINE IN TMPBUF (P2)
0398	439	\$DEF	MAC\$GL_MOPNOM	.BLKL	1	:NUMBER OF OPERANDS IN INSTR.
039C	440	\$DEF	MAC\$GL_MOPPTR	.BLKL	1	:POINTER TO OPERAND DESCRIPTORS
03A0	441	\$DEF	MAC\$GL_OBJ_RCNT	.BLKL	1	:NO. OBJECT RECORDS WRITTEN
03A4	442	\$DEF	MAC\$GL_OPCPGPTR	.BLKL	1	:POINTER TO CURRENT OPDEF PAGES
03A8	443	\$DEF	MAC\$GL_OPCLSTPT	.BLKL	1	:POINTER TO OPDEF LIST
03AC	444	\$DEF	MAC\$GL_OPSIZE	.BLKL	1	:NUMBER OF BYTES IN OPERAND
03B0	445	\$DEF	MAC\$GL_P2_LINE	.BLKL	1	:LINE NUMBER IN PASS 2
03B4	446	\$DEF	MAC\$GL_PC	.BLKL	1	:CURRENT PC
03B8	447	\$DEF	MAC\$GL_PRMSEG	.BLKL	1	:SEGMENT OF EXPRESSION SYMBOL
03BC	448	\$DEF	MAC\$GL_PSC_BLKP	.BLKL	1	:POINTER TO FREE CORE FOR PSECT BLOCKS
03C0	449	\$DEF	MAC\$GL_PSC_LIST	.BLKL	1	:POINTER TO PSECT DEF. BLOCKS
03C4	450	\$DEF	MAC\$GL_PSC_MAX	.BLKL	1	:HIGHEST PSECT # ALLOCATED
03C8	451	\$DEF	MAC\$AB_PSC_SBF	.BLKB	32	:PSECT CONTEXT SAVE BUFFER
03E8	452	\$DEF	MAC\$AL_PSC_SLB	.BLKL	32	:PSECT LSB CONTEXT SAVE BUFFER
0468	453	\$DEF	MAC\$GL_PSC_SBP	.BLKL	1	:BYTE INDEX INTO CONTEXT SAVE BUFFER

```
046C 454 $DEF MAC$GL_PSECT .BLKL 1 ;NUMBER OF CURRENT PSECT
0470 455 $DEF MAC$GL_PSECTPTR .BLKL 1 ;POINTER TO CURRENT PSECT BLOCK
0474 456 $DEF MAC$GB_RDXNDX .BLKB 1 ;INDEX FOR CURRENT RADIX
0475 457 $DEF MAC$GL_RECHDBUF .BLKL 1 ;INPUT RECORD HEADER BUFFER
0479 458 $DEF MAC$GL_RECTYP .BLKL 1 ;RECORD TYPE BEING OUTPUT IN PASS 2
047D 459 $DEF MAC$GL_SAVE_PC .BLKL 1 ;SAVE PC FOR LISTING HERE
0481 460 $DEF MAC$GL_STATOS .BLKL 1 ;EXIT STATUS SET BY P2$END
0485 461 $DEF MAC$GL_STOIMPTR .BLKL 1 ;POINTER TO BEGINNING OF STORE IMMEDIATE COD
0489 462 $DEF MAC$GL_SAVE_SP .BLKL 1 ;SAVE STACK POINTER HERE
048D 463 $DEF MAC$GL_SAV_BAS .BLKL 1 ;SAVE LINE BASE
0491 464 $DEF MAC$GL_SAV_LIN .BLKL 1 ;SAVE LINE NO.
0495 465 $DEF MAC$GL_SAV_PAG .BLKL 1 ;AND PAGE NO. FOR CERTAIN GRAMMAR CONSTRUCTS
0499 466 $DEF MAC$GL_SRC_LCNT .BLKL 1 ;NO. SRC LINES READ IN PASS 1
049D 467 $DEF MAC$GL_SRC_PAG .BLKL 1 ;SOURCE PAGE NUMBER
04A1 468 $DEF MAC$GL_SYM_NLOC .BLKL 1 ;NO. NON-LOCAL SYMBOLS
04A5 469 $DEF MAC$GL_SYM_LOCL .BLKL 1 ;NO. LOCAL SYMBOLS
04A9 470 $DEF MAC$GL_SYM_PAGL .BLKL 2 ;QUE OF ALLOCATED SYMBOL PAGES
04B1 471 $DEF MAC$GL_SYMPGPTR .BLKL 1 ;POINTER TO CURRENT PAGE OF SYMBOLS
04B5 472 $DEF MAC$GL_SYMPGREQ .BLKL 1 ;# OF GET_VM'S FOR SYMBOL TABLE
04B9 473 $DEF MAC$GL_MLFPTR .BLKL 1 ;Current Macro library (MLF) pointer
04BD 474 $DEF MAC$GL_TXTRFA .BLKL 2 ;Librarian text RFA
00000200 04C5 475 $$=512
000003E8 04C5 476 .IIF GREATER <ARG$K SIZE-$$>, $$=ARG$K SIZE
04C5 477 $DEF MAC$AB_TMPBUF .BLKB $$ ;TEMP BUFFER FOR ARGUMENTS, ETC.
08AD 478 $DEF MAC$AB_TMP$YM .BLKB SYMSK_MAXLEN+1 ;TEMP SYMBOL NAME HOLDER
08CD 479 $DEF MAC$AB_TMP$Y1 .BLKB SYMSK_MAXLEN+1 ;SECONDARY MAC$AB_TMP$YM
08ED 480 $DEF MAC$AB_TITLE .BLKB SYMSK_MAXLEN+1 ;HOLDS STRING FROM .TITLE DIRECTIVE
090D 481 $DEF MAC$GL_TTX_SIZ .BLKL 1 ;LENGTH OF TITLE TEXT STRING
0911 482 $DEF MAC$GL_WARNCT .BLKL 1 ;COUNT OF WARNINGS ENCOUNTERED
0915 483 $DEF MAC$GL_XFRADR .BLKL 1 ;POINTER TO SYMBOL BLOCK FOR TRANSFER ADDRES
0919 484 $DEF MAC$GW_LST_LINE .BLKW 1 ;Listing line number
091B 485 $DEF MAC$GW_LST_INST .BLKW 1 ;Listing insert number
091D 486 $DEF MAC$GT_SCB .BLKB SUM_K_BLN ;SUM control block
093A 487 $DEF MAC$GL_CVTADDR .BLKL 1 ;RTL floating pt. conversion routine addr
093E 488 $DEF MAC$GL_IMP_END .BLKL 0 ;END OF IMPURE AREA
0000090A 093E 489 MAC$GK_IMP_SIZ=MAC$GL_IMP_END-MAC$GL_IMP_BEG
093E 490
00000000 491 .PSECT MAC$PARSE_DATA,NOEXE, LONG
0000 492
0000 493 $DEF MAC$GL_ERRPT .BLKL 1 ;POINTER TO LAST TOKEN SCANNED
0004 494 $DEF MAC$GL_ERRPTX .BLKL 1 ;POINTER TO CURRENT TOKEN SCANNED
0008 495 $DEF MAC$GL_EXP$PTR .BLKL 1 ;POINTER TO EXPR START IN INT CODE
000C 496 $DEF MAC$GL_EXP$END .BLKL 1 ;POINTER TO EXPR END IN INT CODE
0010 497 $DEF MAC$GL_NEXT .BLKL 1 ;NEXT SYMBOL TO PARSE
0014 498 $DEF MAC$AL_PSTACK .BLKL 100. ;PARSE STACK
01A4 499 $DEF MAC$AL_VALSTACK .BLKL 256. ;PARSE VALUE STACK
05A4 500 $DEF MAC$GL_VALUE .BLKL 0 ;PARSER CURRENT VALUE
05A4 501 $DEF MAC$GQ_VALUEO .BLKO 0 ;128-bit value for number getters
05A4 502 $DEF MAC$GQ_VALUEQ .BLKQ 0 ;64-BIT VALUE FOR NUMBER-GETTERS
05A4 503 $DEF MAC$GW_VAL1 .BLKW 0 ;FIRST WORD OF VALUE
05A4 504 $DEF MAC$GB_VAL1 .BLKB 1 ;FIRST BYTE OF VALUE
05A5 505 $DEF MAC$GB_VAL2 .BLKB 1 ;SECOND BYTE OF VALUE
05A6 506 $DEF MAC$GW_VAL2 .BLKW 0 ;SECOND WORD OF VALUE
05A6 507 $DEF MAC$GB_VAL3 .BLKB 1 ;THIRD BYTE OF VALUE
05A7 508 $DEF MAC$GB_VAL4 .BLKB 1 ;FOURTH BYTE OF VALUE
05A8 509 $DEF MAC$GL_VAL3 .BLKL 1 ;THIRD AND FOURTH WORDS OF VALUE
05AC 510 $DEF MAC$GQ_VAL2 .BLKQ 1 ;Second quadword of octaword value
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05B4 511 $DEF MAC$GL_VNEXT .BLKL 1 ;VALUE DURING LOOKAHEAD
05B8 512
00000000 513 .PSECT MAC$LISTING_BUF,NOEXE,LONG
0000 514
00000002 0000 515 .BLKB 2 ;LISTING BUFFER OVERFLOW PROTECTION
0002 516 $DEF MAC$AB_LST_END .BLKB 16 ;END OF CODE LISTING BUFFER
0012 517 $DEF MAC$AB_LST_OP2 .BLKB 14 ;START OF SECOND OPERAND FIELD
0020 518 $DEF MAC$AB_LST_OP1 .BLKB 5 ;START OF FIRST OPERAND FIELD
0025 519 $DEF MAC$AB_LST_OPR .BLKB 6 ;START OF OPCODE FIELD
002B 520 $DEF MAC$AB_SEQ_NUM .BLKB 7 ;SOURCE LINE SEQUENCE NUMBER
0032 521 $DEF MAC$AB_LST_LIN .BLKB 0 ;BEGINNING OF CODE LISTING BUFFER
00000030 0032 522 MAC$K_LST_SIZE==.-MAC$AB_LST_END ;SIZE OF CODE LISTING BUFFER
00000012 0032 523 MAC$AB_LST_AUDT = MAC$AB_LST_END+AUD$K_SIZE ;Start of audit trail
0032 524 ; (THIS BUFFER GOES BACKWARDS!)
0032 525 $DEF MAC$AB_LINEBF .BLKB INP$K_BUF$IZ ;SOURCE LINE BUFFER
041A 526 $DEF MAC$AB_LINE_END .BLKB 0 ;END OF SOURCE LINE BUFFER
0000041E 041A 527 .BLKL 1 ;OVERFLOW PADDING
041E 528 $DEF MAC$GL_LST_PTR .BLKL 1 ;POINTER INTO MAC$AB_LST_LIN
0422 529 $DEF MAC$GL_LINEPT .BLKL 1 ;POINTER INTO LINEBF
0426 530
00000000 531 .PSECT MAC$PAGE_HEADER,NOEXE,LONG
0000 532
0000 533 MAC$AB_HD_NEWPG:: ;TO OUTPUT FORM-FEED ALSO
OC 0000 534 .BYTE FF ;WANT NEW PAGE
0001 535 $DEF MAC$AB_HD_TITLE .BLKB SYM$K_MAXLEN+1 ;Chars for title and sub string
0021 536 $DEF MAC$AB_HD_TSTRG .BLKB LST$K_TITLE $IZ+1
004A 537 ;BUFFER FOR TITLE SUB-STRING
004A 538 $DEF MAC$AB_ATIM_BUF .BLKB 22 ;22 bytes for date/time
0060 539 $DEF MAC$AB_HD_VERSN .BLKB 28 ;28 bytes to hold assembler version string
007C 540 $DEF MAC$AB_HD_PAGE .BLKB 8 ;"PAGE nnnn"
0084 541 $DEF MAC$AB_HD_END .BLKB 0 ;END OF PAGE HEADER BUFFER
00000083 0084 542 MAC$K_HD_SIZE==.-MAC$AB_HD_TITLE ;SIZE
0084 543 $DEF MAC$AB_SBT_IDNT .BLKB SYM$K_MAXLEN+1 ;Ident from .IDENT
00A4 544 $DEF MAC$AB_SBT_SBT_L .BLKB LST$K_TITLE $IZ+1 ;SPACE FOR SUBTTL LINE
00CD 545 $DEF MAC$AB_SBT_DATE .BLKB 22 ;Creation date of source file
00E3 546 $DEF MAC$AB_SBT_FILE .BLKB 32 ;Source file specification
0103 547 $DEF MAC$AB_SBT_PAGE .BLKB 5 ;SOURCE PAGE NUMBER
0108 548 $DEF MAC$AB_SBT_END .BLKB 0 ;END OF SUBTITLE LINE
00000084 0108 549 MAC$K_SBT_SIZE==.-MAC$AB_SBT_IDNT
0108 550
00000000 551 .PSECT MAC$PRO_TIMES,NOEXE,LONG
0000 552
0000 553 $DEF MAC$GQ_RNT_TOT .BLKQ 1 ;TOTAL CPU TIME FOR RUN
0008 554 $DEF MAC$GQ_TIM_TOT .BLKQ 1 ;TOTAL ELAPSED TIME FOR RUN
0010 555 $DEF MAC$GL_PFL_TOT .BLKL 1 ;PAGE FAULTS FOR TOTAL RUN
0014 556 $DEF MAC$GQ_RNT_CRF .BLKQ 1 ;TOTAL CPU TIME FOR CRF
001C 557 $DEF MAC$GQ_TIM_CRF .BLKQ 1 ;TOTAL ELAPSED TIME FOR CRF
0024 558 $DEF MAC$GQ_PFL_CRF .BLKL 1 ;PAGE FAULTS FOR CRF
0028 559 $DEF MAC$GQ_RNT_INI .BLKQ 1 ;TOTAL CPU TIME FOR INITIALIZATION
0030 560 $DEF MAC$GQ_TIM_INI .BLKQ 1 ;ELAPSED TIME FOR INITIALIZATION
0038 561 $DEF MAC$GL_PFL_INI .BLKL 1 ;PAGE FAULTS FOR INITIALIZATION
003C 562 $DEF MAC$GQ_RNT_CMD .BLKQ 1 ;CPU TIME FOR COMMAND PROCESSING
0044 563 $DEF MAC$GQ_TIM_CMD .BLKQ 1 ;ELAPSED TIME FOR COMMAND PROCESSING
004C 564 $DEF MAC$GL_PFL_CMD .BLKL 1 ;PAGE FAULTS IN COMMAND PROCESSING
0050 565 $DEF MAC$GQ_RNT_P1 .BLKQ 1 ;CPU TIME FOR PASS 1
0058 566 $DEF MAC$GQ_TIM_P1 .BLKQ 1 ;ELAPSED TIME FOR PASS 1
0060 567 $DEF MAC$GL_PFL_P1 .BLKL 1 ;PAGE FAULTS IN PASS 1
```

0064	568	\$DEF	MAC\$GQ_RNT_SRT	.BLKQ	1	;CPU TIME FOR SYMBOL TABLE SORT
006C	569	\$DEF	MAC\$GQ_TIM_SRT	.BLKQ	1	;ELAPSED TIME FOR SYMBOL TABLE SORT
0074	570	\$DEF	MAC\$GL_PFL_SRT	.BLKL	1	;PAGE FAULTS IN SYMBOL SORT
0078	571	\$DEF	MAC\$GQ_RNT_P2	.BLKQ	1	;CPU TIME FOR PASS 2
0080	572	\$DEF	MAC\$GQ_TIM_P2	.BLKQ	1	;ELAPSED TIME FOR PASS 2
0088	573	\$DEF	MAC\$GL_PFL_P2	.BLKL	1	;PAGE FAULTS IN PASS 2
008C	574	\$DEF	MAC\$GQ_RNT_SYO	.BLKQ	1	;CPU TIME FOR SYMBOL TABLE OUTPUT
0094	575	\$DEF	MAC\$GQ_TIM_SYO	.BLKQ	1	;ELAPSED TIME FOR SYMBOL TABLE OUTPUT
009C	576	\$DEF	MAC\$GL_PFL_SYO	.BLKL	1	;PAGE FAULTS IN SYMBOL TABLE OUTPUT
00A0	577	\$DEF	MAC\$GQ_RNT_PSY	.BLKQ	1	;CPU TIME FOR PSECT SYNOPSIS OUTPUT
00A8	578	\$DEF	MAC\$GQ_TIM_PSY	.BLKQ	1	;ELAPSED TIME FOR PSECT SYNO. OUTPUT
00B0	579	\$DEF	MAC\$GL_PFL_PSY	.BLKL	1	;PAGE FAULTS FOR PSECT SYNO. OUTPUT
00B4	580					
00B4	581		.END			

MA  
VO  
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34  
2A  
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6F  
65  
2B  
50  
4C  
3C  
2E  
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33  
2B  
21  
73  
72  
2B  
49  
34  
2E  
39  
2A  
2B  
21

MAC\$DATA  
Symbol table

STORAGE ALLOCATION FOR VAX NATIVE ASSEMB 16-SEP-1984 02:18:06 VAX/VMS Macro V04-00  
5-SEP-1984 01:47:48 [MACRO.SRC]DATA.MAR;1

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SS = 000003E8  
SST1 = 00000002  
ARG\$K\_SIZE = 000003E8  
AUD\$K\_SIZE = 00000010  
BIT... = 00000005  
BLNK = 00000020  
CHRS\$M\_COMMA\_CR = 00000020  
CHRS\$M\_ILL\_CHR = 00000040  
CHRS\$M\_NUM\_BER = 00000010  
CHRS\$M\_SPA\_MSK = 00000001  
CHRS\$M\_SYM\_CH1 = 00000008  
CHRS\$M\_SYM\_CHR = 00000004  
CHRS\$M\_SYM\_DLM = 00000002  
CHRS\$V\_COMMA\_CR = 00000005  
CHRS\$V\_CVTLWC = 00000061  
CHRS\$V\_ILL\_CHR = 00000006  
CHRS\$V\_NOCVT = 0000007F  
CHRS\$V\_NUM\_BER = 00000004  
CHRS\$V\_SPA\_MSK = 00000000  
CHRS\$V\_SYM\_CH1 = 00000003  
CHRS\$V\_SYM\_CHR = 00000002  
CHRS\$V\_SYM\_DLM = 00000001  
CR = 00000000  
DAND = 0000001D  
DANGCLS = 00000016  
DANGOPN = 00000015  
DAT = 00000020  
DBUP = 0000002B  
DCLS = 00000018  
DCOLON = 00000010  
DCOMMA = 0000000F  
DDIV = 0000001C  
DEOL = 0000000B  
DEQ = 00000011  
DGUP = 0000002C  
DINTEGER = 00000022  
DIUP = 0000002D  
DLUP = 0000002E  
DMASK = 00000032  
DMINUS = 0000001A  
DOPCODE = 0000000E  
DOPN = 00000017  
DOR = 0000001E  
DPC = 00000012  
DPLUS = 00000019  
DPOUND = 00000021  
DSQCLS = 00000014  
DSQOPN = 00000013  
DSUP = 0000002F  
DTIMES = 0000001B  
DUPA = 00000023  
DUPB = 00000024  
DUPC = 00000025  
DUPD = 00000026  
DUPF = 00000028  
DUPM = 00000029  
DUPO = 00000027

DUPX = 0000002A  
DWUP = 00000030  
DXOR = 0000001F  
ERR01 = 00000001  
ERR02 = 00000002  
ERR03 = 00000003  
ERR04 = 00000004  
ERR05 = 00000005  
ERR06 = 00000006  
ERR07 = 00000007  
ERR08 = 00000008  
ERR09 = 00000009  
FF = 0000000C  
GOALSY = 0000000A  
HASHSZ = 0000007F  
HYPHEN = 0000002D  
ID = 0000000C  
INP\$B\_ARGCT = 0000001C  
INP\$K\_BLK\$IZ = 00000021  
INP\$K\_BUF\$IZ = 000003E8  
INP\$K\_IRP\$IZ = 0000003C  
INP\$L\_ARGS = 0000001D  
INP\$L\_GETL = 00000008  
INP\$L\_IFLVL = 0000000C  
INP\$L\_IFVAL = 00000010  
INP\$L\_LINK = 00000000  
INP\$L\_NXTL = 00000004  
INP\$L\_PAGP = 00000018  
INP\$L\_RPTCNT = 00000014  
INT\$K\_BUF\$IZ = 000013F4  
INT\$K\_BUFWRN = 00001390  
KADDRESS = 00000037  
KALIGN = 0000005A  
KASCIC = 00000033  
KASCID = 00000078  
KASCII = 00000034  
KASCIZ = 00000035  
KBLKA = 0000003F  
KBLKB = 00000040  
KBLKD = 00000041  
KBLKF = 00000042  
KBLKG = 0000007E  
KBLKH = 0000007F  
KBLKL = 00000043  
KBLKO = 00000080  
KBLKQ = 00000044  
KBLKW = 00000045  
KBYTE = 00000038  
KCROSS = 00000079  
KDEBUG = 00000055  
KDFLT = 0000007B  
KDOUBLE = 00000039  
KDSABL = 00000056  
KENABL = 00000057  
KEND = 00000076  
KENDC = 0000004E  
KENDM = 00000053

MAC  
V04  
43  
6E  
2B  
45  
3C  
43  
3C  
2E  
38  
2A  
21  
2B  
21  
63  
73  
2B  
68  
67  
31  
3E  
20  
35  
2A  
21  
3E  
2B  
21  
72  
69  
2B



MAC\$DATA  
Symbol table

H 2  
STORAGE ALLOCATION FOR VAX NATIVE ASSEMB 16-SEP-1984 02:18:06 VAX/VMS Macro V04-00  
5-SEP-1984 01:47:48 [MACRO.SRC]DATA.MAR;1

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KENDR	= 0000004F	LBR\$C_READ	= 00000001		
KENTRY	= 00000058	LBR\$C_TYP_MLB	= 00000002		
KERROR	= 00000071	LEN\$K_UPXTAB	= 00000010	G	
KEVEN	= 00000058	LEN\$K_XUPTAB	= 0000000C	G	
KEXTRN	= 0000005D	LST\$K_BUFSIZ	= 00000086		
KFIELD	= 0000003A	LST\$K_L_P_PAGE	= 0C00003C		
KFLOAT	= 0000003B	LST\$K_TITLE_SIZ	= 00000028		
KGFLOAT	= 00000081	MAB\$B_ARGNO	00000005		
KGLOBL	= 0000005E	MAB\$B_NAME	00000004		
KHFLOAT	= 00000082	MAB\$K_BLK\$SIZ	0000000C		
KIDENT	= 0000006A	MAB\$B_DVPTIR	00000008		
KIF	= 00000046	MAB\$B_LINK	00000000		
KIFF	= 00000048	MAB\$B_DVLEN	00000006		
KIFT	= 00000049	MAC\$AB_ATIM_BUF	0000004A	RG	09
KIFTF	= 0000004A	MAC\$AB_CMSK_TAB	00000000	RG	03
KIIF	= 00000047	MAC\$AB_ETXBUF	00000080	RG	06
KINCLUDE	= 0000005F	MAC\$AB_HD_END	00000084	RG	09
KIRP	= 0000004B	MAC\$AB_HD_NEWPG	00000000	RG	09
KIRPC	= 0000004C	MAC\$AB_HD_PAGE	0000007C	RG	09
KLBRARY	= 00000060	MAC\$AB_HD_TITLE	00000001	RG	09
KLINK	= 00000085	MAC\$AB_HD_TSTRG	00000021	RG	09
KLIST	= 00000061	MAC\$AB_HD_VERSN	00000060	RG	09
KLONG	= 0000003C	MAC\$AB_IDENT	000002A8	RG	06
KMACRO	= 00000050	MAC\$AB_LINEBF	00000032	RG	08
KMCALL	= 00000051	MAC\$AB_LINE_END	0000041A	RG	08
KMDELETE	= 00000054	MAC\$AB_LPBUR	0000034C	RG	06
KMEXIT	= 00000052	MAC\$AB_LST_AUDT	= 00000012	R	08
KNARG	= 00000063	MAC\$AB_LST_END	00000002	RG	08
KNCHR	= 00000064	MAC\$AB_LST_LIN	00000032	RG	08
KNCROS	= 0000007A	MAC\$AB_LST_OP1	00000020	RG	08
KNLIST	= 00000062	MAC\$AB_LST_OP2	00000012	RG	08
KNTYPE	= 00000074	MAC\$AB_LST_OPR	00000025	RG	08
KOCTA	= 00000083	MAC\$AB_PSC_SBF	000003C8	RG	06
KODD	= 0000005C	MAC\$AB_SBT_SBF	000000CD	RG	09
KOPDEF	= 00000075	MAC\$AB_SBT_END	00000108	RG	09
KPACKED	= 00000036	MAC\$AB_SBT_FILE	000000E3	RG	09
KPAGE	= 00000065	MAC\$AB_SBT_IDNT	00000084	RG	09
KPRINT	= 00000072	MAC\$AB_SBT_PAGE	00000103	RG	09
KPSECT	= 00000066	MAC\$AB_SBT_SBTL	000000A4	RG	09
KQUAD	= 0000003D	MAC\$AB_SEQ_NUM	0000002B	RG	08
KREF1	= 0000006D	MAC\$AB_TITLE	000008ED	RG	06
KREF16	= 00000084	MAC\$AB_TMPBUF	000004C5	RG	06
KREF2	= 0000006E	MAC\$AB_TMP\$Y1	000008CD	RG	06
KREF4	= 0000006F	MAC\$AB_TMP\$YH	000008AD	RG	06
KREF8	= 00000070	MAC\$AB_UPXTAB	00000000	RG	05
KREPT	= 0000004D	MAC\$AB_UPXTOKEN	00000010	RG	05
KRESTORE	= 00000067	MAC\$AB_XUPTAB	00000020	RG	05
KSAVE	= 00000068	MAC\$AB_XUPTOKEN	0000002C	RG	05
KSBTTL	= 0000006B	MAC\$AL_ATIM_DSC	0000006C	RG	05
KSGNB	= 0000007C	MAC\$AL_CHRTAB	00000000	RG	04
KSGNW	= 0000007D	MAC\$AL_FTIM_DSC	00000074	RG	05
KTITLE	= 00000069	MAC\$AL_PSC_SLB	000003E8	RG	06
KVECTOR	= 00000059	MAC\$AL_PSTACK	00000014	RG	07
KWARN	= 00000073	MAC\$AL_VALSTACK	000001A4	RG	07
KWEAK	= 0000006C	MAC\$CHRERR	*****	X	04
KWORD	= 0000003E	MAC\$GB_IMODE	00000031	RG	06
KXFER	= 00000077	MAC\$GB_IREG	00000033	RG	06

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MACSDATA  
Symbol table

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MAC\$GB_MODE	00000030	RG	06	MAC\$GL_INFOCNT	000002D8	RG	06
MAC\$GB_RDXNDX	00000474	RG	06	MAC\$GL_INI_AP	00000020	RG	06
MAC\$GB_REG	00000032	RG	06	MAC\$GL_INI_FP	00000024	RG	06
MAC\$GB_VAL1	000005A4	RG	07	MAC\$GL_INI_SP	00000028	RG	06
MAC\$GB_VAL2	000005A5	RG	07	MAC\$GL_INPQUE	00000318	RG	06
MAC\$GB_VAL3	000005A6	RG	07	MAC\$GL_INPUTP	00000320	RG	06
MAC\$GB_VAL4	000005A7	RG	07	MAC\$GL_INTCNT	000002E8	RG	06
MAC\$GK_1_PG_SIZ	0000005C	RG	05	MAC\$GL_INTFRMPT	000002DC	RG	06
MAC\$GK_2_PG_SIZ	00000060	RG	05	MAC\$GL_INTPAGRO	000002E4	RG	06
MAC\$GK_IMP_SIZ	= 0000090A	G		MAC\$GL_INTQUE	000002EC	RG	06
MAC\$GK_INTSIZ	00000040	RG	05	MAC\$GL_INTWRNPT	000002E0	RG	06
MAC\$GK_ONE	0000003C	RG	05	MAC\$GL_KEYMAC	00000324	RG	06
MAC\$GK_ZERO	00000038	RG	05	MAC\$GL_KEYPTR	00000328	RG	06
MAC\$GL_ABSFLAG	0000003C	RG	06	MAC\$GL_LIBFUNC	00000080	RG	05
MAC\$GL_ARGPTR	00000034	RG	06	MAC\$GL_LIBTYPE	0000007C	RG	05
MAC\$GL_ASCCNT	00000038	RG	06	MAC\$GL_LINBAS	0000032C	RG	06
MAC\$GL_ASNPTR	00000040	RG	06	MAC\$GL_LINELN	00000334	RG	06
MAC\$GL_BASEADDR	00000044	RG	06	MAC\$GL_LINENUM	00000330	RG	06
MAC\$GL_BLKPTR	00000048	RG	06	MAC\$GL_LINEPT	00000422	RG	08
MAC\$GL_CLIADDR	00000008	RG	06	MAC\$GL_LINE_CNT	00000338	RG	06
MAC\$GL_CMDLEN	00000010	RG	06	MAC\$GL_LINK_PTR	00000340	RG	06
MAC\$GL_CMDLIN	0000000C	RG	06	MAC\$GL_LIST_IT	00000344	RG	06
MAC\$GL_CRF_CNT	00000050	RG	06	MAC\$GL_LIST_LVL	00000348	RG	06
MAC\$GL_CRF_DCNT	00000058	RG	06	MAC\$GL_LIST_PTR	0000041E	RG	08
MAC\$GL_CRF_FLG	00000054	RG	06	MAC\$GL_LN_PAGE	0000033C	RG	06
MAC\$GL_CRF_MCNT	0000005C	RG	06	MAC\$GL_LPTPAG	0000035C	RG	06
MAC\$GL_CRF_OCNT	00000060	RG	06	MAC\$GL_LSB	00000360	RG	06
MAC\$GL_CRF_RCNT	00000064	RG	06	MAC\$GL_LSB_MAX	00000364	RG	06
MAC\$GL_CRSYM	00000068	RG	06	MAC\$GL_MACPTR	00000368	RG	06
MAC\$GL_CTLMSK	0000004C	RG	06	MAC\$GL_MCDEF	00000370	RG	06
MAC\$GL_CURINFDB	0000006C	RG	06	MAC\$GL_MCLVL	00000374	RG	06
MAC\$GL_CVTADDR	0000093A	RG	06	MAC\$GL_MCPGRQ	00000378	RG	06
MAC\$GL_DFPC_DSP	00000070	RG	06	MAC\$GL_MC_ARGCT	0000036C	RG	06
MAC\$GL_DIRFLG	00000014	RG	06	MAC\$GL_MLB_CNT	0000037C	RG	06
MAC\$GL_DSLISF	0000001C	RG	06	MAC\$GL_MLB_GET	00000384	RG	06
MAC\$GL_ENLISF	00000018	RG	06	MAC\$GL_MLB_MDF	00000388	RG	06
MAC\$GL_ERRCT	00000074	RG	06	MAC\$GL_MLB_NDB	00000380	RG	06
MAC\$GL_ERRPT	00000000	RG	07	MAC\$GL_MLB_QUE	0000038C	RG	06
MAC\$GL_ERRPTX	00000004	RG	07	MAC\$GL_MLFPTR	000004B9	RG	06
MAC\$GL_ERR_LIST	00000078	RG	06	MAC\$GL_MLIN_LEN	00000394	RG	06
MAC\$GL_ETXLEN	00000280	RG	06	MAC\$GL_MOPNDM	00000398	RG	06
MAC\$GL_EXPEND	0000000C	RG	07	MAC\$GL_MOPPTR	0000039C	RG	06
MAC\$GL_EXPOVL1	00000284	RG	06	MAC\$GL_NEXT	00000010	RG	07
MAC\$GL_EXPOVL2	00000288	RG	06	MAC\$GL_OBJ_RCNT	000003A0	RG	06
MAC\$GL_EXPPTR	00000008	RG	07	MAC\$GL_OPCSTPT	000003A8	RG	06
MAC\$GL_FINPTF	0000028C	RG	06	MAC\$GL_OPCPGPTR	000003A4	RG	06
MAC\$GL_FLAGS	00000000	RG	06	MAC\$GL_OPSIZE	000003AC	RG	06
MAC\$GL_FNLSTS	0000002C	RG	06	MAC\$GL_P2_LINE	000003B0	RG	06
MAC\$GL_FREE_LST	00000290	RG	06	MAC\$GL_PC	000003B4	RG	06
MAC\$GL_HIGH_32	00000298	RG	06	MAC\$GL_PFL_CMD	0000004C	RG	0A
MAC\$GL_HSHVAL	000002A4	RG	06	MAC\$GL_PFL_INI	00000038	RG	0A
MAC\$GL_IF_CNDPT	000002C8	RG	06	MAC\$GL_PFL_P1	00000060	RG	0A
MAC\$GL_IF_COUNT	000002CC	RG	06	MAC\$GL_PFL_P2	00000088	RG	0A
MAC\$GL_IF_LEVEL	000002D0	RG	06	MAC\$GL_PFL_PSY	000000B0	RG	0A
MAC\$GL_IF_VALUE	000002D4	RG	06	MAC\$GL_PFL_SRT	00000074	RG	0A
MAC\$GL_IMP_BEG	00000034	RG	06	MAC\$GL_PFL_SYO	0000009C	RG	0A
MAC\$GL_IMP_END	0000093E	RG	06	MAC\$GL_PFL_TOT	00000010	RG	0A

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MAC\$DATA  
Symbol table

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MAC\$GL-PRMINBL	000002F4	RG	06
MAC\$GL-PRMSEG	000003B8	RG	06
MAC\$GL-PSC-BLKP	000003BC	RG	06
MAC\$GL-PSC-LIST	000003C0	RG	06
MAC\$GL-PSC-MAX	000003C4	RG	06
MAC\$GL-PSC-SBP	00000468	RG	06
MAC\$GL-PSECT	0000046C	RG	06
MAC\$GL-PSECTPTR	00000470	RG	06
MAC\$GL-RECHDBUF	00000475	RG	06
MAC\$GL-RECTYP	00000479	RG	06
MAC\$GL-SAVE-PC	0000047D	RG	06
MAC\$GL-SAVE-SP	00000489	RG	06
MAC\$GL-SAV-BAS	0000048D	RG	06
MAC\$GL-SAV-LIN	00000491	RG	06
MAC\$GL-SAV-PAG	00000495	RG	06
MAC\$GL-SRCPAG	0000049D	RG	06
MAC\$GL-SRC-LCNT	00000499	RG	06
MAC\$GL-STATUS	00000481	RG	06
MAC\$GL-STOIMPTR	00000485	RG	06
MAC\$GL-SYMPGPTR	00000481	RG	06
MAC\$GL-SYMPGREQ	00000485	RG	06
MAC\$GL-SYM-LOCL	000004A5	RG	06
MAC\$GL-SYM-NLOC	000004A1	RG	06
MAC\$GL-SYM-PAGL	000004A9	RG	06
MAC\$GL-TTX-SIZ	0000090D	RG	06
MAC\$GL-TXTRFA	000004BD	RG	06
MAC\$GL-VAL3	000005A8	RG	07
MAC\$GL-VALUE	000005A4	RG	07
MAC\$GL-VNEXT	000005B4	RG	07
MAC\$GL-WARNCT	00000911	RG	06
MAC\$GL-XFRADR	00000915	RG	06
MAC\$GQ-VALUE0	000005A4	RG	07
MAC\$GQ-HIGH-64	0000029C	RG	06
MAC\$GQ-LINEBFDS	00000084	RG	05
MAC\$GQ-LISTBFDS	0000008C	RG	05
MAC\$GQ-PFL-CRF	00000024	RG	0A
MAC\$GQ-RNT-CMD	0000003C	RG	0A
MAC\$GQ-RNT-CRF	00000014	RG	0A
MAC\$GQ-RNT-INI	00000028	RG	0A
MAC\$GQ-RNT-P1	00000050	RG	0A
MAC\$GQ-RNT-P2	00000078	RG	0A
MAC\$GQ-RNT-PSY	000000A0	RG	0A
MAC\$GQ-RNT-SRT	00000064	RG	0A
MAC\$GQ-RNT-SYO	0000008C	RG	0A
MAC\$GQ-RNT-TOT	00000000	RG	0A
MAC\$GQ-TIM-CMD	00000044	RG	0A
MAC\$GQ-TIM-CRF	0000001C	RG	0A
MAC\$GQ-TIM-INI	00000030	RG	0A
MAC\$GQ-TIM-P1	00000058	RG	0A
MAC\$GQ-TIM-P2	00000080	RG	0A
MAC\$GQ-TIM-PSY	000000A8	RG	0A
MAC\$GQ-TIM-SRT	0000006C	RG	0A
MAC\$GQ-TIM-SYO	00000094	RG	0A
MAC\$GQ-TIM-TOT	00000008	RG	0A
MAC\$GQ-VAL2	000005AC	RG	07
MAC\$GQ-VALUEQ	000005A4	RG	07
MAC\$GT-SCB	0000091D	RG	06

MAC\$GW-LST-INST	0000091B	RG	06
MAC\$GW-LST-LINE	00000919	RG	06
MAC\$GW-VALT	000005A4	RG	07
MAC\$GW-VAL2	000005A6	RG	07
MAC\$G-T-PAGE	00000044	RG	05
MAC\$G-2-PAGES	00000050	RG	05
MAC\$G-LSTBUFDES	00000064	RG	05
MAC\$K-HD-SIZE	= 00000083	G	
MAC\$K-LIST-SIZE	= 00000030	G	
MAC\$K-SBT-SIZ	= 00000084	G	
MAC\$NUMBER	*****	X	04
MAC\$SYMBOL	*****	X	04
MAC\$SYMMUM	*****	X	04
MAC\$XPOUND	*****	X	04
MAC\$XSMBL	*****	X	04
MAC\$XUPARROW	*****	X	04
MACTXT	= 0000000D		
MAC-SUBSYS	= 0000007D		
MNB\$B-ARGCT	00000017		
MNB\$B-NAME	00000004		
MNB\$K-BLKSIZ	0000001C		
MNB\$L-ARGP	00000018		
MNB\$L-CRSYMF	00000013		
MNB\$L-LINK	00000000		
MNB\$L-PAGC	0000000F		
MNB\$L-PAGP	0000000B		
MNB\$W-FLAG	00000005		
MXB\$K-BLKSIZ	00000009		
MXB\$L-LINK	00000008		
MXB\$L-PAGES	00000000		
OBJ\$K-BUFSIZ	= 00000200		
PSC\$B-NAME	00000004		
PSC\$B-SEG	0000000C		
PSC\$B-UNUSED	0000000B		
PSC\$K-BLKSIZ	00000013		
PSC\$K-NO-OPTNS	= 0000000A		
PSC\$L-CURLOC	0000000F		
PSC\$L-LINK	00000000		
PSC\$L-MAXLGTH	00000005		
PSC\$M-ABS	= FFFFFFFF7		
PSC\$M-ALIGNFLG	= 00004000		
PSC\$M-ALLOPTNS	= 000003FF		
PSC\$M-BYTE	= 00004000		
PSC\$M-CON	= FFFFFFFFB		
PSC\$M-DEFAULT	= 000001C8		
PSC\$M-EXE	= 000000C0		
PSC\$M-GBL	= 00000010		
PSC\$M-LCL	= FFFFFFFEF		
PSC\$M-LIB	= 00000002		
PSC\$M-LONG	= 00004800		
PSC\$M-NOEXE	= FFFFFFFBF		
PSC\$M-NOPIE	= FFFFFFFFE		
PSC\$M-NORD	= FFFFFFF7F		
PSC\$M-NOSHR	= FFFFFFFDF		
PSC\$M-NOVEC	= FFFFFFFDF		
PSC\$M-NOWRT	= FFFFFFFEF		

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PSCSM\_OVR = 00000004  
PSCSM\_PAGE = 00006400  
PSCSM\_PIC = 00000001  
PSCSM\_QUA = 00004C00  
PSCSM\_RD = 00000080  
PSCSM\_REL = 00000008  
PSCSM\_SHR = 00000020  
PSCSM\_USR = 00000000  
PSCSM\_VEC = 00000200  
PSCSM\_WORD = 00004400  
PSCSM\_WRT = 00000180  
PSCSS\_ALIGNMENT = 00000004  
PSCSV\_ALIGNFLG = 0000000E  
PSCSV\_ALIGNMENT = 0000000A  
PSCSV\_EXE = 00000006  
PSCSV\_GBL = 00000004  
PSCSV\_LIB = 00000001  
PSCSV\_OVR = 00000002  
PSCSV\_PIC = 00000000  
PSCSV\_RD = 00000007  
PSCSV\_REL = 00000003  
PSCSV\_SHR = 00000005  
PSCSV\_VEC = 00000009  
PSCSV\_WRT = 00000008  
PSCSW\_FLAG = 00000009  
PSCSW\_OPTIONS = 0000000D  
RDXSV\_BINARY = 00000000  
RDXSV\_DECIMAL = 00000002  
RDXSV\_DOUBLE = 00000005  
RDXSV\_FLOAT = 00000004  
RDXSV\_GFLOAT = 00000006  
RDXSV\_HEX = 00000003  
RDXSV\_HFLOAT = 00000007  
RDXSV\_OCTAL = 00000001  
REG\$ PC = 0000000F  
RRREG = 00000031  
SEMI = 0000003B  
SIZ... = 00000001  
SPECIAL = 80000000  
STBSK\_PG\_MISS = 0000000A  
SUM\_B\_FLAGS = 0000001C  
SUM\_K\_BLN = 0000001D  
SUM\_L\_ISDATA = 00000004  
SUM\_L\_STS = 00000000  
SUM\_M\_AUDIT = 00000001  
SUM\_M\_AUDITNEW = 00000002  
SUM\_M\_DELETE = 00000010  
SUM\_M\_SRCUPD = 00000004  
SUM\_M\_SUBCLSH = 00000008  
SUM\_Q\_AUDDS = 00000008  
SUM\_Q\_FILESP = 00000010  
SUM\_V\_AUDIT = 00000000  
SUM\_V\_AUDITNEW = 00000001  
SUM\_V\_DELETE = 00000004  
SUM\_V\_SRCUPD = 00000002  
SUM\_V\_SUBCLSH = 00000003  
SUM\_W\_INSERT\_NO = 0000001A

SUM\_W\_LINE\_NO = 00000018  
SYMSB\_NAME = 00000004  
SYMSB\_SEG = 0000000C  
SYMSB\_TOKEN = 0000000B  
SYMSK\_BLKSIZE = 0000000D  
SYMSK\_MAXLEN = 0000001F  
SYMSK\_TWOCOL = 00000010  
SYMSL\_LINK = 00000000  
SYMSL\_VAL = 00000005  
SYMSM\_ABS = 00000010  
SYMSM\_ASN = 00000100  
SYMSM\_CRFO = 00002000  
SYMSM\_DEBUG = 00000020  
SYMSM\_DEF = 00000001  
SYMSM\_DELMAC = 00000200  
SYMSM\_EPT = 00000200  
SYMSM\_EXTRN = 00000008  
SYMSM\_GLOBL = 00000004  
SYMSM\_LOCAL = 00000040  
SYMSM\_ODBG = 00000400  
SYMSM\_REF = 00000080  
SYMSM\_RELPSECT = 00000800  
SYMSM\_SUPR = 00004000  
SYMSM\_WEAK = 00000002  
SYMSM\_XCRF = 00001000  
SYMSV\_ABS = 00000004  
SYMSV\_ASN = 00000008  
SYMSV\_CRFO = 0000000D  
SYMSV\_DEBUG = 00000005  
SYMSV\_DEF = 00000000  
SYMSV\_DELMAC = 00000009  
SYMSV\_EPT = 00000009  
SYMSV\_EXTRN = 00000003  
SYMSV\_GLOBL = 00000002  
SYMSV\_LOCAL = 00000006  
SYMSV\_ODBG = 0000000A  
SYMSV\_REF = 00000007  
SYMSV\_RELPSECT = 0000000B  
SYMSV\_SUPR = 0000000E  
SYMSV\_WEAK = 00000001  
SYMSV\_XCRF = 0000000C  
SYMSW\_FLAG = 00000009  
TAB = 00000009  
X1 = 00000400  
X2 = 0000000F

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+-----+  
! Psect synopsis !  
+-----+

PSECT name	Allocation	PSECT No.	Attributes
. ABS .	00000000 ( 0.)	00 ( 0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
. BLANK .	00000000 ( 0.)	01 ( 1.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC BYTE
\$ABSS	0000003C ( 60.)	02 ( 2.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
MAC\$CHR_FLG_TAB	00000100 ( 256.)	03 ( 3.)	NOPIC USR CON REL GBL NOSHR NOEXE RD NOWRT NOVEC LONG
MAC\$CHRTAB	00000400 ( 1024.)	04 ( 4.)	NOPIC USR CON REL GBL NOSHR NOEXE RD NOWRT NOVEC LONG
MAC\$RO_DATA	00000094 ( 148.)	05 ( 5.)	NOPIC USR CON REL GBL NOSHR NOEXE RD NOWRT NOVEC LONG
MAC\$RW_DATA	0000093E ( 2366.)	06 ( 6.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC LONG
MAC\$PARSE_DATA	000005B8 ( 1464.)	07 ( 7.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC LONG
MAC\$LISTING_BUF	00000426 ( 1062.)	08 ( 8.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC LONG
MAC\$PAGE_HEADER	00000108 ( 264.)	09 ( 9.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC LONG
MAC\$PRO_TIMES	000000B4 ( 180.)	0A ( 10.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC LONG

+-----+  
! Performance indicators !  
+-----+

Phase	Page faults	CPU Time	Elapsed Time
Initialization	30	00:00:00.07	00:00:00.93
Command processing	108	00:00:00.46	00:00:02.84
Pass 1	324	00:00:10.23	00:00:38.89
Symbol table sort	0	00:00:00.96	00:00:04.04
Pass 2	151	00:00:01.88	00:00:06.94
Symbol table output	65	00:00:00.31	00:00:00.82
Psect synopsis output	3	00:00:00.04	00:00:00.04
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	683	00:00:13.96	00:00:54.52

The working set limit was 1800 pages.

68561 bytes (134 pages) of virtual memory were used to buffer the intermediate code.

There were 50 pages of symbol table space allocated to hold 1008 non-local and 0 local symbols.

581 source lines were read in Pass 1, producing 54 object records in Pass 2.

18 pages of virtual memory were used to define 17 macros.

+-----+  
! Macro library statistics !  
+-----+

Macro library name	Macros defined
-\$255\$DUA28:[SHRLIB]SUM.MLB;1	3
-\$255\$DUA28:[MACRO.OBJ]MACRO.MLB;1	5
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	8
TOTALS (all libraries)	16

943 GETS were required to define 16 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:DATA/OBJ=OBJ\$:DATA MSRC\$:DATA/UPDATE=(ENH\$:DATA)+LIB\$:MACRO/LIB+SHRLIB\$:SUM/LIB



0225 AH-BT13A-SE  
VAX/VMS V4.0

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